

# ABSTRACT OF THE DISCLOSURE

To make a soft magnetic underlayer of a double layered perpendicular magnetic recording medium thinner than heretofore while avoiding saturation. Assuming that  $T_{b1}$  is the thickness of the soft magnetic underlayer of the double layered perpendicular magnetic recording medium,  $B_{s2}$  the saturation flux density of the same,  $T_m$  the thickness of a magnetic recording head's main pole 1 along a track direction in the vicinity of its floating surface,  $T_{ww}$  the track width of the same, and  $B_{s1}$  the saturation flux density of the same, then  $T_{b1} < (B_{s1} \times T_m \times T_{ww}) / 2(B_{s2} \times (T_m + T_{ww}))$  is satisfied.